

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/617,619A
Source: 1Fu16
Date Processed by STIC: 1/28/05

ENTERED



IFW16

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/617,619A

DATE: 01/28/2005

TIME: 16:22:48

Input Set : A:\Substitute Sequence Listing.ST25.txt
 Output Set: N:\CRF4\01282005\J617619A.raw

3 <110> APPLICANT: Bjorn, Soren E
 4 Nicolaisen, Else M
 5 Jorgensen, Anker S
 7 <120> TITLE OF INVENTION: TF Binding Compound
 9 <130> FILE REFERENCE: 6455.200-US
 11 <140> CURRENT APPLICATION NUMBER: 10/617,619A
C--> 12 <141> CURRENT FILING DATE: 2003-07-11
 14 <150> PRIOR APPLICATION NUMBER: Danish Application No. PA 2002 01099
 15 <151> PRIOR FILING DATE: 2002-07-12
 17 <150> PRIOR APPLICATION NUMBER: US 60/404,568
 18 <151> PRIOR FILING DATE: 2002-08-19
 20 <160> NUMBER OF SEQ ID NOS: 14
 22 <170> SOFTWARE: PatentIn version 3.3
 24 <210> SEQ ID NO: 1
 25 <211> LENGTH: 406
 26 <212> TYPE: PRT
 27 <213> ORGANISM: Artificial
 29 <220> FEATURE:
 30 <223> OTHER INFORMATION: Synthetic
 33 <220> FEATURE:
 34 <221> NAME/KEY: MISC_FEATURE
 35 <222> LOCATION: (1)..(406)
 36 <223> OTHER INFORMATION: Xaa=4-carboxyglutamic acid (gamma-carboxyglutamate)
 38 <400> SEQUENCE: 1

W--> 40 Ala Asn Ala Phe Leu Xaa Xaa Leu Arg Pro Gly Ser Leu Xaa Arg Xaa
 41 1 5 10 15
 44 Cys Lys Xaa Xaa Gln Cys Ser Phe Xaa Xaa Ala Arg Xaa Ile Phe Lys
 45 20 25 30
 48 Asp Ala Xaa Arg Thr Lys Leu Phe Trp Ile Ser Tyr Ser Asp Gly Asp
 49 35 40 45
 52 Gln Cys Ala Ser Ser Pro Cys Gln Asn Gly Gly Ser Cys Lys Asp Gln
 53 50 55 60
 56 Leu Gln Ser Tyr Ile Cys Phe Cys Leu Pro Ala Phe Glu Gly Arg Asn
 57 65 70 75 80
 60 Cys Glu Thr His Lys Asp Asp Gln Leu Ile Cys Val Asn Glu Asn Gly
 61 85 90 95
 64 Gly Cys Glu Gln Tyr Cys Ser Asp His Thr Gly Thr Lys Arg Ser Cys
 65 100 105 110
 68 Arg Cys His Glu Gly Tyr Ser Leu Leu Ala Asp Gly Val Ser Cys Thr
 69 115 120 125
 72 Pro Thr Val Glu Tyr Pro Cys Gly Lys Ile Pro Ile Leu Glu Lys Arg
 73 130 135 140
 76 Asn Ala Ser Lys Pro Gln Gly Arg Ile Val Gly Gly Lys Val Cys Pro

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77 145 150 155 160
 80 Lys Gly Glu Cys Pro Trp Gln Val Leu Leu Val Asn Gly Ala Gln
 81 165 170 175
 84 Leu Cys Gly Gly Thr Leu Ile Asn Thr Ile Trp Val Val Ser Ala Ala
 85 180 185 190
 88 His Cys Phe Asp Lys Ile Lys Asn Trp Arg Asn Leu Ile Ala Val Leu
 89 195 200 205
 92 Gly Glu His Asp Leu Ser Glu His Asp Gly Asp Glu Gln Ser Arg Arg
 93 210 215 220
 96 Val Ala Gln Val Ile Ile Pro Ser Thr Tyr Val Pro Gly Thr Thr Asn
 97 225 230 235 240
 100 His Asp Ile Ala Leu Leu Arg Leu His Gln Pro Val Val Leu Thr Asp
 101 245 250 255
 104 His Val Val Pro Leu Cys Leu Pro Glu Arg Thr Phe Ser Glu Arg Thr
 105 260 265 270
 108 Leu Ala Phe Val Arg Phe Ser Leu Val Ser Gly Trp Gly Gln Leu Leu
 109 275 280 285
 112 Asp Arg Gly Ala Thr Ala Leu Glu Leu Met Val Leu Asn Val Pro Arg
 113 290 295 300
 116 Leu Met Thr Gln Asp Cys Leu Gln Gln Ser Arg Lys Val Gly Asp Ser
 117 305 310 315 320
 120 Pro Asn Ile Thr Glu Tyr Met Phe Cys Ala Gly Tyr Ser Asp Gly Ser
 121 325 330 335
 124 Lys Asp Ser Cys Lys Gly Asp Ser Gly Gly Pro His Ala Thr His Tyr
 125 340 345 350
 128 Arg Gly Thr Trp Tyr Leu Thr Gly Ile Val Ser Trp Gly Gln Gly Cys
 129 355 360 365
 132 Ala Thr Val Gly His Phe Gly Val Tyr Thr Arg Val Ser Gln Tyr Ile
 133 370 375 380
 136 Glu Trp Leu Gln Lys Leu Met Arg Ser Glu Pro Arg Pro Gly Val Leu
 137 385 390 395 400
 140 Leu Arg Ala Pro Phe Pro
 141 405
 144 <210> SEQ ID NO: 2
 145 <211> LENGTH: 30
 146 <212> TYPE: DNA
 147 <213> ORGANISM: Human
 149 <400> SEQUENCE: 2
 150 gctagccacc atggctccccc agggccctcag 30
 153 <210> SEQ ID NO: 3
 154 <211> LENGTH: 39
 155 <212> TYPE: DNA
 156 <213> ORGANISM: Human
 158 <400> SEQUENCE: 3
 159 cgagccccat ttcccgatc cgccagagccc aaatcttgt 39
 162 <210> SEQ ID NO: 4
 163 <211> LENGTH: 39
 164 <212> TYPE: DNA
 165 <213> ORGANISM: Human

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167 <400> SEQUENCE: 4
 168 cgagcccat ttccggatc cgagagccc aaatcttgt 39
 171 <210> SEQ ID NO: 5
 172 <211> LENGTH: 23
 173 <212> TYPE: DNA
 174 <213> ORGANISM: Human
 176 <400> SEQUENCE: 5
 177 ttgcggccg tcgactcat tta 23
 180 <210> SEQ ID NO: 6
 181 <211> LENGTH: 701
 182 <212> TYPE: PRT
 183 <213> ORGANISM: Human
 185 <400> SEQUENCE: 6
 187 Met Val Ser Gln Ala Leu Arg Leu Leu Cys Leu Leu Leu Gly Leu Gln
 188 1 5 10 15
 191 Gly Cys Leu Ala Ala Gly Gly Val Ala Lys Ala Ser Gly Gly Glu Thr
 192 20 25 30
 195 Arg Asp Met Pro Trp Lys Pro Gly Pro His Arg Val Phe Val Thr Gln
 196 35 40 45
 199 Glu Glu Ala His Gly Val Leu His Arg Arg Arg Arg Ala Asn Ala Phe
 200 50 55 60
 203 Leu Glu Glu Leu Arg Pro Gly Ser Leu Glu Arg Glu Cys Lys Glu Glu
 204 65 70 75 80
 207 Gln Cys Ser Phe Glu Glu Ala Arg Glu Ile Phe Lys Asp Ala Glu Arg
 208 85 90 95
 211 Thr Lys Leu Phe Trp Ile Ser Tyr Ser Asp Gly Asp Gln Cys Ala Ser
 212 100 105 110
 215 Ser Pro Cys Gln Asn Gly Gly Ser Cys Lys Asp Gln Leu Gln Ser Tyr
 216 115 120 125
 219 Ile Cys Phe Cys Leu Pro Ala Phe Glu Gly Arg Asn Cys Glu Thr His
 220 130 135 140
 223 Lys Asp Asp Gln Leu Ile Cys Val Asn Glu Asn Gly Gly Cys Glu Gln
 224 145 150 155 160
 227 Tyr Cys Ser Asp His Thr Gly Thr Lys Arg Ser Cys Arg Cys His Glu
 228 165 170 175
 231 Gly Tyr Ser Leu Leu Ala Asp Gly Val Ser Cys Thr Pro Thr Val Glu
 232 180 185 190
 235 Tyr Pro Cys Gly Lys Ile Pro Ile Leu Glu Lys Arg Asn Ala Ser Lys
 236 195 200 205
 239 Pro Gln Gly Arg Ile Val Gly Gly Lys Val Cys Pro Lys Gly Glu Cys
 240 210 215 220
 243 Pro Trp Gln Val Leu Leu Val Asn Gly Ala Gln Leu Cys Gly
 244 225 230 235 240
 247 Thr Leu Ile Asn Thr Ile Trp Val Val Ser Ala Ala His Cys Phe Asp
 248 245 250 255
 251 Lys Ile Lys Asn Trp Arg Asn Leu Ile Ala Val Leu Gly Glu His Asp
 252 260 265 270
 255 Leu Ser Glu His Asp Gly Asp Glu Gln Ser Arg Arg Val Ala Gln Val
 256 275 280 285

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259 Ile Ile Pro Ser Thr Tyr Val Pro Gly Thr Thr Asn His Asp Ile Ala
260 290 295 300
263 Leu Leu Arg Leu His Gln Pro Val Val Leu Thr Asp His Val Val Pro
264 305 310 315 320
267 Leu Cys Leu Pro Glu Arg Thr Phe Ser Glu Arg Thr Leu Ala Phe Val
268 325 330 335
271 Arg Phe Ser Leu Val Ser Gly Trp Gly Gln Leu Leu Asp Arg Gly Ala
272 340 345 350
275 Thr Ala Leu Glu Leu Met Val Leu Asn Val Pro Arg Leu Met Thr Gln
276 355 360 365
279 Asp Cys Leu Gln Gln Ser Arg Lys Val Gly Asp Ser Pro Asn Ile Thr
280 370 375 380
283 Glu Tyr Met Phe Cys Ala Gly Tyr Ser Asp Gly Ser Lys Asp Ser Cys
284 385 390 395 400
287 Lys Gly Asp Ser Gly Gly Pro His Ala Thr His Tyr Arg Gly Thr Trp
288 405 410 415
291 Tyr Leu Thr Gly Ile Val Ser Trp Gly Gln Gly Cys Ala Thr Val Gly
292 420 425 430
295 His Phe Gly Val Tyr Thr Arg Val Ser Gln Tyr Ile Glu Trp Leu Gln
296 435 440 445
299 Lys Leu Met Arg Ser Glu Pro Arg Pro Gly Val Leu Leu Arg Ala Pro
300 450 455 460
303 Phe Pro Gly Ser Ala Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys
304 465 470 475 480
307 Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu
308 485 490 495
311 Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu
312 500 505 510
315 Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys
316 515 520 525
319 Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys
320 530 535 540
323 Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu
324 545 550 555 560
327 Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys
328 565 570 575
331 Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys
332 580 585 590
335 Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser
336 595 600 605
339 Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys
340 610 615 620
343 Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln
344 625 630 635 640
347 Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly
348 645 650 655
351 Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln
352 660 665 670
355 Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn

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356 675 680 685
359 His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
360 690 695 700
363 <210> SEQ ID NO: 7
364 <211> LENGTH: 232
365 <212> TYPE: PRT
366 <213> ORGANISM: Human
368 <400> SEQUENCE: 7
370 Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala
371 1 5 10 15
374 Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro
375 20 25 30
378 Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val
379 35 40 45
382 Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val
383 50 55 60
386 Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln
387 65 70 75 80
390 Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln
391 85 90 95
394 Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala
395 100 105 110
398 Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro
399 115 120 125
402 Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr
403 130 135 140
406 Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser
407 145 150 155 160
410 Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr
411 165 170 175
414 Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr
415 180 185 190
418 Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe
419 195 200 205
422 Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys
423 210 215 220
426 Ser Leu Ser Leu Ser Pro Gly Lys
427 225 230
430 <210> SEQ ID NO: 8
431 <211> LENGTH: 641
432 <212> TYPE: PRT
433 <213> ORGANISM: Artificial
435 <220> FEATURE:
436 <223> OTHER INFORMATION: Synthetic
439 <220> FEATURE:
440 <221> NAME/KEY: misc_feature
441 <222> LOCATION: (6)..(7)
442 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
444 <220> FEATURE:

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 01/28/2005
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 6,7,14,16,19,20,25,26,29,35
Seq#:8; Xaa Pos. 6,7,14,16,19,20,25,26,29,35

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,8,9,10,11,12,13,14

VERIFICATION SUMMARY

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L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:40 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
M:341 Repeated in SeqNo=1
L:476 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
M:341 Repeated in SeqNo=8